

CONFIDENTIAL

NPIC/TDS/D-750-67
22 March 1967

MEMORANDUM FOR: Deputy Chief, Development Staff, TDS

THROUGH : Chief, Support Systems Branch, DS/TDS

SUBJECT : Evaluation of Special Drying Techniques - Microwave and Vacuum Drying.

25X1A 1. On 8 March 1967 a call was made to Westover AFB. Contact was made with [REDACTED] Discussion included all commercial organizations the Air Force had contacted in relation to microwave and vacuum drying.

25X1A a. [REDACTED] indicated
25X1A that [REDACTED] of Wright-Patterson AFB would be aware of
25X1A the work in microwave drying by this [REDACTED] firm and by the
25X1A [REDACTED]

25X1A b. [REDACTED] This cor-
poration built a 35mm microwave dryer for the movie industry.
They lack interest in continuing a development program for
wider photographic materials.

25X1A c. [REDACTED]
25X1A Microwave Dryer Proposal [REDACTED]
indicated that this particular concept held little promise.

25X1A d. [REDACTED]
25X1A [REDACTED] informed us that [REDACTED] had performed
25X1A some experimental tests in drying photographic materials in
25X1A microwave waveguides designed for other purposes. He also
25X1A gave us a contact [REDACTED] and also indicated
25X1A that [REDACTED] had conducted vacuum drying experiments.

25X1A 2. 13 March 1967 [REDACTED] was contacted. A
25X1A discussion was held on microwave drying and what photographic applications had
25X1A been considered. [REDACTED] indicated that preliminary experiments in
25X1A microwave drying of films had been performed but that this area of work had
25X1A been transferred to another department headed by [REDACTED] He indicated
that [REDACTED] would have knowledge of work performed with vacuum drying.

DECLASS REVIEW BY NIMA / DoD

CONFIDENTIAL



CONFIDENTIAL

25X1A

25X1A

25X1A

25X1A

25X1A

25X1A

3. On 14 March 1967 [REDACTED] was contacted. [REDACTED] was aware of the previous experiments performed by [REDACTED] in utilizing microwaves for drying photographic films; although work had not continued in this area when the transfer of this responsibility occurred. [REDACTED] was asked if any work is being performed in vacuum drying. He indicated that [REDACTED] was involved in a combination of microwave and vacuum drying but not in the photographic area. [REDACTED] knowledge of drying photographic materials is limited.

25X1A

25X1A

4. On 14 March 1967 [REDACTED] of Wright-Patterson AFB was contacted. [REDACTED] and his department are involved in monitoring the contracts for Westover in microwaves and vacuum drying.

25X1A

a. An investigation contract in vacuum drying is being conducted for Wright-Patterson AFB by [REDACTED] in Calif. Vacuum chambers used in food processing are being utilized in the drying experiments of photographic films. Separate experiments are being conducted to maintain a vacuum in an unheated chamber where film is moved in and out of a gate.

25X1A

25X1A

25X1A

25X1A

25X1A

b. The best information on microwave drying equipment or breadboards [REDACTED] could be obtained from [REDACTED] in [REDACTED]

25X1A

5. On 14 March 1967 [REDACTED] (Limited) was contacted. [REDACTED] explained that they have built a 9 1/2" microwave film dryer breadboard prototype that utilizes 1800 watts of power and runs at about four feet per minute. This can be demonstrated at any time. In [REDACTED] there is a dryer for paper prints using microwave techniques and runs at two feet per minute. Neither the film nor paper dryer have been exposed to color materials.

25X1A

6. As the only prototype equipment utilizing microwave techniques, paralleling our requirements, is in [REDACTED] would be desirable to determine the application of these techniques to our own requirements within NPIC. Travel orders are being prepared for this trip.

25X1A

25X1A

7. An attempt was made to contact [REDACTED] of Westover AFB. [REDACTED] is on TDY for several weeks. He will be contacted when he returns.

25X1A

Distribution:

Original & 1 - Addressee
1 - Originator
3 - TDS/DS

CONFIDENTIAL

Approved For Release 2001/08/13 : CIA-RDP78B04747A001400020009-6

STATINTL

Approved For Release 2001/08/13 : CIA-RDP78B04747A001400020009-6